

We claim:

1. An assembly with a threaded connection, comprising:

an outer part made from ceramic and having an internal thread;

an inner part made from ceramic and having an external thread;

said internal thread and said external thread having thread windings with a substantially uniform lead, a root and a crest, and individual thread windings with a substantially v-shaped profile;

at least one of said internal and external threads being formed with a wedge ramp at said root and, when said inner and outer parts are screwed into one another, said crests of one of said parts abut with said wedge ramps at said root of the other one of said parts; and

said internal and external threads being cylindrical threads or conical threads.

2. The assembly according to claim 1, wherein said inner and outer parts are made from synthetically produced carbon or graphite.

3. The assembly according to claim 1, wherein said outer part is a carbon electrode with a socket and an internal thread

formed therein, and said inner part is a carbon connecting pin with said external thread for connecting two said electrodes.

4. The assembly according to claim 3, wherein said wedge ramp is disposed on said root of said thread winding of said internal thread of said carbon electrode, and said carbon electrode has a lower modulus of elasticity than said carbon connecting pin.

5. The assembly according to claim 1, wherein at least one winding of a respective said thread is formed with a wedge ramp on said root.

6. The assembly according to claim 5, wherein said wedge ramp on said root of a thread winding is formed on sections of a length of said thread winding.

7. The assembly according to claim 3, wherein, in a preset with an electrode forming said outer part and a connecting pin forming said inner part partly screwed into said electrode, said wedge ramp on said root of a thread winding is only applied on said internal thread of the electrode socket that has not been screwed together with a connecting pin beforehand.

8. The assembly according to claim 3, wherein a surface of the wedge ramp on said root of a thread winding defines an angle in a range between 10° and 60° with a longitudinal axis of said connecting pin or said electrode.

9. The assembly according to claim 8, wherein said angle lies in a range between 25° and 35° .

10. The assembly according to claim 8, wherein said angle between said wedge ramp on said root of a thread winding and said longitudinal axis is calculated in a clockwise or a counterclockwise direction.

11. The assembly according to claim 1, wherein a projection of said wedge ramp onto a central longitudinal axis of said connecting pin or said electrode is 30 to 100 % as long as a height of said thread winding, and a length of said projection is positioned on said root of said thread winding such that when the threaded connection components are screwed together, said wedge ramp of the first component is contacted in a center by said crest of said thread winding of said second component.

12. An electrode column, comprising the assembly according to claim 1 with a plurality of said outer parts formed as carbon electrodes and said inner parts formed as connecting pins

screwing said electrodes together in an electrode column, and with the assembly forming a locking and load-bearing connection that is not susceptible to unscrewing.

13. The threaded connection assembly, comprising:

first and second parts formed with threads and including an outer part with an internal thread and an associated inner part with an external thread;

said threads of said first and second parts having a uniform lead;

an individual thread winding of said first part having a substantially v-shaped profile and said second part being formed with an encircling wedge ramp in the nature of a thread, wherein, when said first and second parts are screwed into one another, thread winding crests of said first part abut with said encircling wedge ramp on said second part; and wherein load-bearing thread windings of said thread windings are not usually conformed with said substantially v-shaped profile.

14. An electrode column, comprising the threaded connection assembly according to claim 13 with a plurality of said outer parts formed as carbon electrodes and said inner parts formed

as connecting pins screwing said electrodes together in an electrode column, and with the assembly forming a locking and load-bearing connection that is not susceptible to unscrewing.